

# APPLYING SYSTEMS OF EQUATIONS

Name \_\_\_\_\_

Date \_\_\_\_\_ Pd \_\_\_\_\_

Show your work in each box. Then record the letter of each puzzle piece in the correct order at the bottom.

START	A	B
C	D	E
F	G	H

**SOLUTION**

START → \_\_\_\_ → \_\_\_\_ → \_\_\_\_ → \_\_\_\_ → \_\_\_\_ → \_\_\_\_ → \_\_\_\_ → \_\_\_\_ → FINISH

**START**

A rectangular swimming pool has a perimeter of 150 meters. The length of the pool is twice the width of the pool. What is the length of the pool?

**A**

**31**

Margaret and Nathan spent a total of \$128 at the state fair last weekend. Nathan spent \$2 more than twice the amount that Margaret spent. How much did Nathan spend at the fair?

**B**

**50**

A coffee shop sells lattes for \$4 and cappuccinos for \$3. Last Friday, sales totaled \$252. If the number of lattes sold was 6 more than 4 times the number of cappuccinos, how many lattes were sold?

**C**

**70**

Two angles are supplementary. The larger angle is 18 less than 5 times the smaller angle. How many degrees is the smaller angle?

**D**

**43**

A vending machine has a total of 41 chocolate bars and bags of pretzels. The number of chocolate bars is one less than twice the number of bags of pretzels. How many chocolate bars are in the vending machine?

**E**

**54**

A sports store sold a total of 59 footballs and soccer balls last weekend. Soccer balls cost \$12 and footballs cost \$18. If total sales were \$876, how many soccer balls did they sell?

**F**

**27**

Jackie bought two pairs of shoes for a total of \$138. The difference in the price of the shoes was \$42. How much was the more expensive pair of shoes?

**G**

**33**

A piggy bank has \$6.95 and contains only nickels and dimes. If there are a total of 91 coins, how many nickels are there?

**H**

**86**

Bob swam a total of 250 meters on Monday and Tuesday. On Tuesday, the number of meters he swam was 30 less than 3 times the amount he swam on Monday. How many meters did Bob swim on Monday?

**90**

**FINISH**

# APPLYING SYSTEMS OF EQUATIONS

Name Answer Key  
Date \_\_\_\_\_ Pd \_\_\_\_\_

Show your work in each box. Then record the letter of each puzzle piece in the correct order at the bottom.

START          50 meters	A          \$86	B          54 lattes
C          33 degrees	D          27 chocolate bars	E          31 soccer balls
F          \$90	G          43 nickels	H          70 meters

## SOLUTION

START → B → E → A → H → C → G → D → F → FINISH